

Docket Number: 081468-0275503

Client Reference: P-0166.010-US

#### PATENT APPLICATION

#### IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In Re the Application of

CASTENMILLER, et al.

Group Art Unit: 2882

Application No.: 09/739,622

Examiner: Ho, Allen

Filed: December 20, 2000

Confirmation No.: 4742

For: POSITION DETECTION SYSTEM FOR USE IN LITHOGRAPHIC APPARATUS

#### INFORMATION DISCLOSURE STATEMENT

Commissioner for Patents P. O. Box 1450 Alexandria, VA 22313-1450

Sir:

Pursuant to 37 CFR 1.56, the attention of the Patent and Trademark Office is hereby directed to the references listed on the attached PTO-1449. Unless otherwise indicated herein, one copy of each reference is attached. It is respectfully requested that the information be expressly considered during the prosecution of this application, and that the reference(s) be made of record therein and appear among the "References Cited" on any patent to issue therefrom.

This Information Disclosure Statement is being filed more than three months after the U.S. filing date and after the mailing date of a Final Rejection or Notice of Allowance, but before payment of the Issue Fee. Please charge Deposit Account 033975 in the amount of \$180.00 in payment of the fee under 37 CFR 1.17(i)(p). Please credit or debit Deposit Account 033975 as needed to ensure consideration of the disclosed information. Two duplicated copies of this paper are attached.

I hereby certify that each item of information contained in this Information Disclosure Statement was first cited in any communication from a foreign patent office in a counterpart foreign application not more than three months prior to the filing of this Information Disclosure Statement. 37 CFR 1.97(e)(1).

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CASTENMILLER, et al. - - 09/739,622

Client/Matter: 081468-0275503

The references were cited in a counterpart foreign application. An English language version of the foreign search report is attached for the Examiner's information.

Respectfully Submitted,

John P. Darling Reg. No. 44482

Date: February 9, 2004

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\*EXAMINER: Initial if citation considered, whether or not citation is in conformance with MPEP § 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to Applicant.



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Zweigstelle in Den Haag Recherchenabteilung European Patent Office

Branch at The Hague Search division Office européen des brevets

Département à La Haye Division de la recherche

Leeming, John Gerard J.A. Kemp & Co., 14 South Square, Gray's Inn London WC1R 5JJ GRANDE BRETAGNE J.A. KEMP & Co.

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Action by.....

Datum/Date 22.12.03

Zeichen/Ref./Réf.

N.78608A JGL

Anmeldung Nr/Application No/Demande n°/Patent Nr /Patent No/Brevet n°. 00311469.1-1242-

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Anmelder/Applicant/Demandeur/Patentinhaber/Proprietor/Titulaire ASML Netherlands B.V.

### COMMUNICATION

The European Patent Office herewith transmits as an enclosure the European search report for the above-mentioned European patent application.

If applicable, copies of the documents cited in the European search report are attached.

Additional set(s) of copies of the documents cited in the European search report is (are) enclosed as well.

The following specifications given by the applicant have been approved by the Search Division:

☐ abstract

☐ title

The abstract was modified by the Search Division and the definitive text is attached to this communication.

The following figure will be published together with the abstract:

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## **REFUND OF THE SEARCH FEE**

If applicable under Article 10 Rules relating to fees, a separate communication from the Receiving Section on the refund of the search fee will be sent later.



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Category	Citation of document with i		to claim	APPLICATION (Int.CI.7)
X	US 4 676 649 A (PHI 30 June 1987 (1987- * column 9, line 20 * column 14, line 3	1-4,12, 14,15	G03F9/00 G03F7/20	
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# ANNEX TO THE EUROPEAN SEARCH REPORT ON EUROPEAN PATENT APPLICATION NO.

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This annex lists the patent family members relating to the patent documents cited in the above-mentioned European search report. The members are as contained in the European Patent Office EDP file on The European Patent Office is in no way liable for these particulars which are merely given for the purpose of information.

03-12-2003

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## ABSTRACT / ZUSAMMENFASSUNG / ABREGE

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A position detection apparatus (10A,10B,10C) comprises a radiation source (11) mounted on an isolated reference frame (MF) and a two-dimensional detector (15) mounted adjacent said radiation source. The object (WT) whose position is to be detected has a retro-reflector (13) mounted on it so as to reflect light emitted from the radiation source along a return path (14) that is parallel to but displaced from the incident light path (12). The amount of displacement is dependent on the position of the object and is measured by the two-dimensional detector. Three such apparatus can be combined in a system to measure the position of the object in all six degrees of freedom.